



Search  for

Limits Preview/Index History Clipboard Details

Display  Show

Range: from  to  ☐ Reverse complemented strand Features: ☐ SNP ☐ CDD ☒

☐ 1: [X56895](#). Reports *E.faecium* plasmid...[gi:43335]

[Links](#)

Jump to [Features](#) [Sequence](#)

LOCUS EFPVANAG 1768 bp DNA linear BCT 17-JUN-1991

DEFINITION *E.faecium* plasmid pIP816 vanA gene for VANA ligase.

ACCESSION X56895

VERSION X56895.1 GI:43335

KEYWORDS D-alanyl-D-alanine ligase; VANA glycopeptide resistance protein; vancomycin resistance.

SOURCE *Enterococcus faecium*

ORGANISM [Enterococcus faecium](#)

Bacteria; Firmicutes; Lactobacillales; Enterococcaceae; Enterococcus.

REFERENCE 1 (bases 1 to 1768)

AUTHORS Dutka-Malen, S., Molinas, C., Arthur, M. and Courvalin, P.

TITLE The VANA glycopeptide resistance protein is related to D-alanyl-D-alanine ligase cell wall biosynthesis enzymes

JOURNAL Mol. Gen. Genet. 224 (3), 364-372 (1990)

PUBMED [2266943](#)

REFERENCE 2 (bases 1 to 1768)

AUTHORS Dutka-Malen, S.

TITLE Direct Submission

JOURNAL Submitted (25-FEB-1991) S. Dutka-Malen, Institut Pasteur, Unile des Agents Antibacteriens, 28 rue du Dr Roux, Paris Cedex 15, France

FEATURES Location/Qualifiers

source

1..1768

/organism="Enterococcus faecium"

/mol\_type="genomic DNA"

/strain="BM4147"

/db\_xref="taxon:1352"

/plasmid="pIP816"

RBS

360..369

gene

377..1408

/gene="vanA"

CDS

377..1408

/gene="vanA"

/experiment="experimental evidence, no additional details recorded"

/codon\_start=1

/transl\_table=11

/product="VANA ligase"

/protein\_id="CAA40215.1"

/db\_xref="GI:43336"

/db\_xref="GOA:P25051"

/db\_xref="UniProtKB/Swiss-Prot:P25051"

/translation="MNRKIVAILFGGCSEEHVSVKSAIEIAANINKEKYEPLYIGIT"

KSGVWKMCCKPCAEWENDNCYSAVLSPDKKMHGLLVKKNHYEYINHVDVAFSALHGKS  
GEDGSIQGLFELSGIPFVGCDIQSSAICMDKSLTYIVAKNAGIATPAFWVINKDDRVP  
AATFTYPVFKPARSGSSFGVKKVNSADELDYAIESARQYDSKILIEQAVSGCEVGCA  
VLGNSAALVVGVEVDQIRLQYGI FRIHQVEPEKGSSENAVITVPADLSAEERGRIQETA  
KKIYKALGCRGLARVDMFLQDNGRIVLNEVNTLPGFTSYSRYPRMMAAGIALPELID  
RLIVLALKG"

## ORIGIN

```
1 gatatcgтта cgtttcatgt gccgctcaat acggatacgc actatattat cagccacgaa
61 caaatacaga gaatgaagca aggagcattt cttatcaata ctgggcgcgg tccacttgta
121 gatacctatg agttggttaa agcattagaa aacgggaaac tgggcggtgc cgcattggat
181 gtattggaag gagaggaaga gtttttctac tctgattgca cccaaaaacc aattgataat
241 caattttttac ttaaacttca aagaatgcct aacgtgataa tcacaccgca tacggcctat
301 tataccgagc aagcgttgcg tgataccgtt gaaaaaacca ttaaaaactg tttggatttt
361 gaaaggagac aggagcatga atagaataaa agttgcaata ctgtttgggg gttgctcaga
421 ggagcatgac gtatcggtaa aatctgcaat agagatagcc gctaacatta ataaagaaaa
481 atacgagccg ttatacattg gaattacgaa atctggtgta tggaaaatgt gcgaaaaacc
541 ttgcgcggaa tgggaaaacg acaattgcta ttcagctgta ctctcgccgg ataaaaaat
601 gcacggatta cttgttaaaa agaaccatga atatgaaatc aaccatgttg atgtagcatt
661 ttcagctttg catggcaagt caggtgaaga tggatccata caaggtctgt ttgaattgtc
721 cggtatccct tttgtaggct gcgatattca aagctcagca atttgtatgg acaaatcggt
781 gacatacatc gttgcgaaaa atgctgggat agctactccc gccttttggg ttattaataa
841 agatgatagg ccggtggcag ctacgtttac ctatcctgtt tttgttaagc cggcgcgttc
901 aggctcatcc ttcggtgtga aaaaagtcaa tagcgcggac gaattggact acgcaattga
961 atcggcaaga caatatgaca gcaaaatctt aattgagcag gctgtttcgg gctgtgaggt
1021 cggttgtgcg gtattgggaa acagtgccgc gttagtgtgt ggcgaggtgg acaaatcag
1081 gctgcagtac ggaatctttc gtattcatca ggaagtcgag ccgaaaaag gctctgaaaa
1141 cgcagttata accgttcccg cagacctttc agcagaggag cgaggacgga tacaggaaac
1201 ggcaaaaaaa atatataaag cgctcggctg tagaggtcta gcccggtgtg atatgttttt
1261 acaagataac ggccgcattg tactgaacga agtcaatact ctgcccggtt tcacgtcata
1321 cagtcgтtat ccccgtatga tggccgctgc aggtattgca cttcccgaac tgattgaccg
1381 cttgatcgta ttagcgttaa aggggtgata agcatggaaa taggatttac ttttttagat
1441 gaaatagtag acggtgttcg ttgggacgct aaatatgcca cttgggataa tttcaccgga
1501 aaaccgggtg acggttatga agtaaatcgc attgtaggga catacgagtt ggctgaatcg
1561 cttttgaagg caaaagaact ggctgctacc caagggtacg gattgcttct atgggacggg
1621 taccgtccta agcgtgctgt aaactgtttt atgcaatggg ctgcacagcc ggaaaataac
1681 ctgacaaagg aaagttatta tccaatatt gaccgaactg agatgatttc aaaaggatac
1741 gtggcttcaa aatcaagcca tagccgcg
```

//

[Disclaimer](#) | [Write to the Help Desk](#)  
[NCBI](#) | [NLM](#) | [NIH](#)

Oct 4 2005 13:32:42